

### **Abstract**

A method for performing data transfer of keyboard-video-mouse (KVM) switch, especially referring to a method that can make the KVM switch transmit data to or receive data from multiple computers simultaneously. The method includes steps as: storing  
5 peripheral data ready for transfer in data registers; setting transmit flag register (Tx flag) and receive flag register; transferring (Rx flag) a bit of the peripheral data from each of the data registers to each of the data pins during a clock cycle at each of the I/O ports corresponding to the Tx flag set; receiving a bit of control data from each of the data pin and storing the bit of said control data to each of the data register during the clock cycle at  
10 each of the I/O ports corresponding to the Rx flag set. Thereby, the method can transmit data to or receive data from multiple computers simultaneously.